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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,118	02/26/2007	Christopher Murphy	PLATYPUS 10969	1358
72960 Casimir Jones, S	7590 06/26/200 S.C.		EXAMINER	
440 Science Dri Suite 203			GITOMER, RALPH J	
Madison, WI 53	3711		ART UNIT	PAPER NUMBER
			1657	
			MAIL DATE	DELIVERY MODE
			06/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/579,118	MURPHY ET AL.
Office Action Summary	Examiner	Art Unit
	Ralph Gitomer	1657
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING DESTRICTION OF THE MAILING DESTRUCTION OF THE MAILING	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 11 I 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 98-113 is/are pending in the applicate 4a) Of the above claim(s) 106-113 is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 98-105 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac	drawn from consideration. or election requirement. ner.	Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

Applicant's election without traverse of Group I, claims 98-105, in the reply filed on 5/11/09 is acknowledged. The specification lacks some standard headings such as a Brief Description of the Drawings. Please update the continuing information in the preamble of the specification. And as this application is a CIP of 11/342,413, please inform the examiner as to how this application differs from the parent applications to select the proper priority date.

It appears the point of novelty may be found in present claim 102 directed to liquid crystal optical effects for observing cell movement in the wells where mesogen orientation is changed. All the other claimed features are conventional in this art such as pipettes to introduce precise amounts of liquids into many wells in a plate simultaneously.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 98-101, 103-105 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Goldbard in view of Pham.

Goldbard (2008/0187949) entitled "Multiplexed Assays of Cell Migration" teaches in paragraph 20, plates with various compartments for testing cell migration with candidate cell attraction materials. In paragraphs 34-36 cell chemotaxis and invasiveness in microplate wells is shown. In paragraph 52 compounds that act on the migration of cells by promoting it or inhibiting it can be studied. In paragraph 56 the migration region may have any suitable position within a well or sub-well. The migration region may be adjacent the floor or bottom surface of the wells.

The claims differ from Goldbard in that they include a cell seeding device and masked and unmasked portions of plates and wells.

It is conventional in this art to transfer cells with commercially available pipettes and such devices will not be further considered.

Pham (6,171,780) entitled "Low Fluorescence Assay Platforms and Related Methods for Drug Discovery" teaches in column 2 first full paragraph, various multiwell plate formats from 96 - >3000 wells. In column 10 first full paragraph, multiwell platform formats are discussed. In columns 13-14, the multiwell platform may have opaque portions and where the bottom of the well is not opaque, has a high transmittance and may be circular. In column 14 last paragraph bridging to column 15, the wells can include living cells of various types for cell based assays. In column 28 last full paragraph, testing for therapeutic activity and toxicology of cells is shown.

It would have been obvious to one of ordinary skill in the art at the time of the invention to perform the method of Goldbard with cells in wells with the masked and unmasked plates of

Pham because Pham teaches a number of benefits of masked wells to facilitate observing selected areas without interference from other selected areas. Observing cells in portions of wells by masking portions would have been obvious in view of Pham which makes observation of selected portions easier. Observing the same cells for the same function as taught by Goldbard with any known method for it known function with the expected results would have been obvious.

Claim 102 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Goldbard in view of Pham as applied to claims 98-101, 103-105 above, and further in view of Abbott.

Claim 102 differs from the above references in that it includes the wells orient mesogens. See the teachings of Goldbard and Pham above.

Abbott (WO 99/63329) entitled "Optical Amplification of Molecular Interactions Using Liquid Crystals" (from the PCT search report submitted) teaches on page 60 under The Device, mesogenic layers are supported by a support layer which can be non-planar. On page 61 first and second paragraphs microscopic and spectroscopic techniques are discussed

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ the method of Goldbard and Pham with liquid crystal technology including mesogens because Abbott teaches mesogens improve observing small changes on surfaces and have useful optical properties. Employing a known technology such as liquid crystals for its known function to improve observing small changes with the expected results would have been obvious. No unexpected result is disclosed.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 103-105 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Each of the following applies in all occurrences.

In claim 103 line 2 "is" may be intended to be deleted. In claims 104 and 105 "said predetermined region" lacks antecedent basis.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The abstract of the disclosure is objected to because it is not directed to the current claims. Correction is required. See MPEP § 608.01(b).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Murphy (7,018,838) is a related patent.

Abbott (2009/0054262) teaches cell assay devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ralph Gitomer whose telephone number is (571) 272-0916. The examiner can normally be reached on Monday - Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on (571) 272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ralph Gitomer/ Primary Examiner, Art Unit 1657

Ralph Gitomer Primary Examiner Art Unit 1657